Claim 1. (Canceled).

2. (Currently Amended) A protein comprising a recombinant uricase protein of a mammalian species which has been modified to insert one or more lysine residues~~according to claim 1~~ wherein said recombinant protein is a chimeric protein of two or more mammalian amino acid sequences.

3. (Original) A protein of claim 2 wherein said recombinant uricase chimeric protein comprises 304 amino acids, the first 225 N-terminal portion of said 304 amino acids being amino acids 1-225 of porcine uricase and the remaining 79 amino acids of said 304 amino acids being amino acids 226-304 of baboon uricase.

4. (Original) A protein of claim 2 wherein said recombinant uricase chimeric protein comprises 304 amino acids, the first 288 N-terminal portion of said 304 amino acids being amino acids 1-288 of porcine uricase and the remaining 16 amino acids of said 304 amino acids being amino acids 289-304 of baboon uricase.

5. (Original) A recombinant uricase protein selected from the group consisting of SEQ ID NO:s 2 , 4, 8, 9, 10 and 11.

6. (Currently Amended) An isolated and purified nucleic acid molecule coding the recombinant uricase of claim ~~1~~2.

7. (Original) An isolated and purified nucleic acid molecule coding the recombinant uricase of claim 3.

8. (Original) An isolated and purified nucleic acid molecule coding a recombinant uricase of claim 4.

9. (Original) An isolated and purified nucleic acid molecule coding a recombinant uricase of claim 5.

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10. (Original) An isolated and purified nucleic acid molecule of claim 9 having a base sequence of SEQ ID NO:1.

11. (Original) An isolated and purified nucleic acid molecule of claim 9 having a base sequence of SEQ ID NO:3.

12. (Currently Amended) A vector comprising a nucleic acid molecule of claim ~~1~~2.

13. (Original) A vector comprising a nucleic acid molecule of claim 9.

14. (Original) A host cell comprising a vector according to claim 12.

15. (Original) A host cell comprising a vector according to claim 13.

16. (Currently Amended) A method of increasing the available non-deleterious PEG attachment sites ~~to~~ in a uricase protein comprising mutating a uricase protein whereby at least one lysine residue is introduced therein.

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17. (Currently Amended) A method of increasing the available non-deleterious PEG attachment sites ~~to~~ in a uricase protein comprising mutating a uricase protein whereby at least one lysine residue is introduced therein in the place of an arginine.